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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,487	07/25/2003	Timothy R. Machold	RADME-64498	4201	
24201 FULWIDER P	7590 05/16/2007 ATTON LLP		EXAMINER		
HOWARD HU	HUGHES CENTER		NASSER, F	NASSER, ROBERT L	
6060 CENTER LOS ANGELE	DRIVE, TENTH FLOOR S. CA 90045		ART UNIT PAPER NUMBER		
	,		3735		
			, MAIL DATE	DELIVERY MODE	
			05/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summers	10/627,487	MACHOLD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Robert L. Nasser	3735			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION (36(a). In no event, however, may a will apply and will expire SIX (6) MON cause the application to become Al	CATION. eply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 05 Fe	ahruany 2007				
	action is non-final.				
3) Since this application is in condition for allowar		ers prosecution as to the merits is	2		
closed in accordance with the practice under E			•		
Disposition of Claims	·				
4)⊠ Claim(s) <u>30-35</u> is/are pending in the application	1.		•		
4a) Of the above claim(s) is/are withdraw		,			
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>30, 32-35</u> is/are rejected.					
7)⊠ Claim(s) <u>31</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) acce		by the Examiner.			
Applicant may not request that any objection to the	·	•			
Replacement drawing sheet(s) including the correct	- · · ·		d)		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C.	119(a)-(d) or (f).			
1. Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document		polication No.			
3. Copies of the certified copies of the prior		•			
application from the International Bureau	*				
* See the attached detailed Office action for a list		received.			
Attachment(s)	·				
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)			
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date			
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Motice of l	nformal Patent Application			

Application/Control Number: 10/627,487

Art Unit: 3735

It is the examiner's position that the current claims are sufficiently distinct from applicant's earlier patents that no double patenting rejection is warranted at this time.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 30 is rejected under 35 U.S.C. 103 as being unpatentable over Saab 5624392 in view of Saringer 58954128, and Utterberg et al 6383158. Saab shows a heat exchange catheter system having a heat exchange catheter, but it does not show the fluid supply structure. Saringer teaches in figures 22-24 a device to supply heat exchange fluid to a heat exchange device, a pad in this case, including a pump 314, an air vent 358 (see column 10, lines 47-50), an external heat exchanger 310, and an external fluid supply 320. The examiner notes that the fluid supply is external to the pump and heat exchanger. It would have been obvious to modify Saab to use such a fluid supply circuit, as it is merely the use of a known circuit to supply fluid to devices like Saab. The combination does not have vents that do not allow passage of liquid. Utterberg further teaches a hydrophobic vent is another known method to eliminate air from a fluid line. Hence, it would have been obvious to modify the combination to use

Application/Control Number: 10/627,487

Art Unit: 3735

such a vent, as it is merely the substitution of one known equivalent air removal technique for another. The combination performs the steps of the method in claim 30.

Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saab in view of Saringer, and Utterberg et al, as applied to claim 30 above, further in view of Leung 4548212. Leung teaches damping chambers 26 and 27 for damping pressure variations in the flow to eliminate turbulence. Hence, it would have been obvious to modify Fontenot to use such a dampener, to avoid turbulence and provide a more uniform distribution of temperature.

Claims 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saab in view of Saringer, and Utterberg et al, as applied to claim 30 above, further in view of Kolen et al 5980561. Kolen teaches using a constant pressure circulation pump in column 6, line 41. The examiner takes official notice that is known to drive a pump to produce constant pressure out by supplying it with constant current. Hence, it would have been obvious to modify the above combination, as it is merely the substitution of one known equivalent pump for another.

Claim 31 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the art has the level sensor that automatically triggers the external fluid source by opening a valve, as claimed.

Applicant's arguments filed 2/5/2007 have been fully considered but they are most in view of the new grounds of rejection.

Application/Control Number: 10/627,487

Art Unit: 3735

Page 4

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is 571 272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8366 ormation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert L. Nasser Primary Examiner Art Unit 3735

RLN May 11, 2007

> RODERT L. NASSER Maloren Bloderien